

We claim:

1. An arrangement for use in providing power to an electrical device, the arrangement comprising:

- a) an inverter generating an inverter output;
- b) a first switch having an open position and a closed position, the first switch operably coupled to connect the inverter to the electrical device when the first switch is in the closed position;
- c) a second switch having an open position and a closed position, the second switch operably coupled to connect a utility power line source to the electrical device when the second switch is in the closed position;
- d) a bypass controller operable to cause a first transition sequence in which the first switch changes to the open position and subsequently the second switch changes to the closed position, the bypass controller further operable to:
  - cause continuous actuation of a first indicator when the first switch is in the closed position;
  - cause continuous actuation of a second indicator when the second switch is in the closed position; and
  - cause intermittent actuation of the second indicator during at least a portion of the first transition sequence.

2. The arrangement of claim 1, wherein the first and second indicators are light emitting diodes.

3. The arrangement of claim 1, wherein the bypass controller causes continuous actuation of the first indicator at all times in which the first switch is in the closed position.
4. The arrangement of claim 3, wherein the bypass controller causes intermittent actuation of the second indicator only when the first switch is in the open position.
5. The arrangement of claim 1, wherein the bypass controller is further operable to cause the inverter to discontinue generating the inverter output during the first transition sequence and before causing the first switch to change to the open position.
6. The arrangement of claim 1, wherein the first transition sequence includes a portion in which the bypass controller obtains information regarding operation of the arrangement while the first switch is in the open position and the second switch is in the open position.
7. The arrangement of claim 1, wherein the inverter includes a variable frequency drive.
8. The arrangement of claim 1, wherein the bypass controller is operable to initiate the first transition sequence responsive to a signal indicative of an overcurrent condition in the inverter.

9. The arrangement of claim 1, wherein the bypass controller is operable to initiate the first transition sequence responsive to a signal generated by actuation of a user input.

10. An arrangement for providing a visible display corresponding to the operation of a system for providing alternative sources of power to an electrical device, the system having a plurality of states including a utility power bypass state and an inverter power state, the arrangement comprising a plurality of indicators and a processing circuit, the processing circuit operable to:

cause a first visible configuration of the plurality of indicators when the arrangement is in the inverter power state;

cause a second visible configuration of the plurality of indicators when the arrangement is in the utility power bypass state;

cause a third visible configuration of the plurality of indicators when the arrangement at least a portion of the time when the arrangement is in transition between the inverter power state and the utility power bypass state.

11. The arrangement of claim 10 further comprising indicia proximate one or more of the plurality of indicators, and wherein the first visible configuration includes a first indicator in an actuated state, the first indicator disposed proximate indicia corresponding to the inverter power state.

12. The arrangement of claim 11 wherein the second visible configuration includes a second indicator in an actuated state, the second indicator disposed proximate indicia corresponding to the utility power bypass state.

13. The arrangement of claim 10 wherein the third visible configuration includes an intermittently actuated indicator.

14. The arrangement of claim 11 wherein the third visible configuration includes the first indicator in an intermittently actuated state.

15. The arrangement of claim 12 wherein the third visible configuration includes the second indicator in an intermittently actuated state.

16. The arrangement of claim 10 wherein the plurality of indicators comprise a plurality of light emitting diodes.

17. A bypass circuit for use in an arrangement for use in providing power to an electrical device, the arrangement comprising an inverter generating an inverter output, the bypass circuit comprising:

a first switch having an open position and a closed position, the first switch operably coupled to connect the inverter to the electrical device when the first switch is in the closed position,

a second switch having an open position and a closed position, the second switch operably coupled to connect a utility power line source to the electrical device when the second switch is in the closed position,

a processing circuit operable to cause a first transition sequence in which the first switch changes to the open position and subsequently the second switch changes to the closed position, the bypass controller further operable to provide a signal to the inverter to cause the inverter to cease providing output prior to first switch changing to the open position.

18. The bypass circuit of claim 17 wherein the first switch comprises a relay.

19. The bypass circuit of claim 17 further comprising a plurality of indicators, and wherein the processing circuit is operable to:

cause a first visible configuration of the plurality of indicators when the first switch is in the closed position; and

cause a second visible configuration of the plurality of indicators when the second switch is in the closed position.

20. The bypass circuit of claim 17 wherein the processing circuit is further operable to cause a second transition sequence in which the second switch changes to the open position and subsequently the first switch changes to the closed position, the bypass controller further operable to provide a signal to the inverter to cause the inverter to start providing output after the first switch changing to the closed position.